

## **SYSTEM AND METHOD FOR MEMORY HUB-BASED EXPANSION BUS**

### **ABSTRACT OF THE DISCLOSURE**

A system memory includes a memory hub controller, a memory module accessible by the memory hub controller, and an expansion module having a processor circuit coupled to the memory module and also having access to the memory module. The memory hub controller is coupled to the memory hub through a first portion of a memory bus on which the memory requests from the memory hub controller and memory responses from the memory hub are coupled. A second portion of the memory bus couples the memory hub to the processor circuit and is used to couple memory requests from the processor circuit and memory responses provided by the memory hub to the processor circuit.